

Subject index to Volume 29

A

- A7r5 cells (permeabilized), effects of 2APB on IP₃ and Ca²⁺ release 111
- Adenosine, anti-adrenergic effect on Na⁺/Ca²⁺ exchanger 347
- ADP-ribose (cyclic)
 - bombesin-induced Ca²⁺ signalling 211
 - IP₃ and Ca²⁺ release from pancreatic acinar cells 29
- Adrenal chromaffin cells (bovine), neurotransmitter release and Ca²⁺ stores 49
- Adrenal medullary cells (rat), inhibition of catecholamine secretion by Ly294002 and wortmannin 239
- α₁-Adrenoceptor, graded activation and Ca²⁺ signalling 327
- Afterdepolarizations, early and late, in rabbit heart Purkinje cells 289
- Ameiva ameiva*, signal transduction in red blood cells 439
- c-AMP, in Ca²⁺ signalling via cloned κ-opioid receptors 39
- Amperometric characterization of exocytotic events 199
- Apoptosis, correlation with expression of high-molecular-weight calmodulin-binding protein 59
- ATP, disassembling of cytoskeleton via P2x receptors 299

B

- B lymphocytes
 - effects of caffeine on Ca²⁺ homeostasis 149
 - Na⁺ block and depolarization diminish P2Z-dependent Ca²⁺ entry 395
- Bombesin-induced cytosolic Ca²⁺ signalling and cyclic ADP-ribose 211
- Bradykinin-induced rapid cyclooxygenase-2 mRNA expression via Ca²⁺ mobilization in fibroblasts 446

C

- Caffeine, effects on Ca²⁺ in B lymphocytes 149
- Calbindin-D28k, calcium buffering and protection from excitotoxic cell death 277
- Calcium
 - dissociation constant of Rhod₂, calibration in perfused mouse heart model 217
 - requirement for efficient phagocytosis by *Dictyostelium discoideum* 229
- Calcium buffering, protection from excitotoxic cell death by exogenous calbindin-D28k 277
- Calcium channels
 - contraction of colonic circular smooth muscle cells inhibited by pinaverium bromide 429

- modulation of epithelial channel (ECaC) by intracellular Ca²⁺ 417
- protein kinase C-regulated, kinetics of activation 263
- Calcium concentration, intracellular
 - stimulation by mechanical stress in neonatal rat cardiomyocytes 73
 - voltage dependence of oscillations in prawn oocytes 97
- Calcium entry
 - effect of Na⁺ block and depolarization in B lymphocytes 395
 - store-operated, in coronary smooth muscle cells 359
- Calcium gradients, intracellular, in human uterine smooth muscle 183
- Calcium homeostasis
 - anti-adrenergic effect of adenosine on Na⁺/Ca²⁺ exchanger 347
 - cell death in Sol8 dystrophin-deficient cell line 85
 - effects of caffeine in B lymphocytes 149
 - endoplasmic reticulum, dependence of vital cell function (Review) 1
 - purinergic responses of cochlear Deiter's cells 191
- Calcium influx, O₂⁻ secretion in neutrophil-like HL-60 cells 409
- Calcium mobilization, bradykinin-induced rapid cyclo-oxygenase-2 mRNA expression in fibroblasts 446
- Calcium oscillations
 - frequency decoding by calpain 161
 - Mn²⁺/Ca²⁺ influx during 311
 - voltage dependence in prawn oocytes 97
- Calcium release
 - cyclic ADP-ribose induced, and IP₃ 29
 - differential segmental activation of Cl⁻ and K⁺ channels in myocytes 369
 - effects of 2APB on permeabilized A7r5 cells 111
 - in leech photoreceptor 335
 - sites, and distribution of sarcoplasmic reticulum in myocytes 13
- Calcium signalling
 - ATP disassembles cytoskeleton via P2x receptors 299
 - bombesin-induced, and cyclic ADP-ribose 211
 - graded α₁-adrenoceptor activation of arteries 327
 - sorting at junctions of endoplasmic reticulum and mitochondria 249
 - synchronized, in hippocampal neuron network 379
 - transduction in red blood cells of lizards 439
 - via cloned κ-opioid receptors 39
- Calcium sources, amperometric characterization of exocytotic events, 199

- Calcium stores
in differentiated *Dictyostelium discoideum* 171
neurotransmitter release from (bovine) adrenal chromaffin cells 49
- Calcium waves
early and late afterdepolarizations in rabbit heart Purkinje cells 289
intra/intercellular propagation in endothelial cells 117, 125
intra/intercellular propagation in ROS cells 137
- Calmodulin-binding protein (high-molecular-weight), correlation of expression with apoptosis in ischemia-reperfused rat heart 59
- Calpain, decoding of fast Ca^{2+} oscillations, 161
- Cardiomyocytes (neonatal rat), stimulation of PLC activity and Ca^{2+} levels by mechanical stress 73
- Catecholamine secretion, inhibition by LY294002 and wortmannin 239
- Cell death
 Ca^{2+} homeostasis and Sol8 dystrophin-deficient cell line 85
correlation of apoptosis with expression of high-molecular-weight calmodulin-binding protein 59
excitotoxic, Ca^{2+} buffering and protection by calbindin-D28k 277
- CHO cells, Ca^{2+} signalling via cloned k-opioid receptors, 39
- Chloride channels, differential segmental activation in myocytes 369
- Colonic smooth muscle cells, inhibition of contraction by Ca^{2+} blocker pinaverium bromide 429
- Confocal microscopy, early and late afterdepolarizations in rabbit heart Purkinje cells 289
- CPAE cells, mechanism of intra/intercellular Ca^{2+} wave propagation 117, 125
- Cyclooxygenase-2 mRNA expression, bradykinin-induced, via Ca^{2+} mobilization in fibroblasts 446
- Cytoskeleton, disaggregation by ATP via P2x receptors 299
- D**
- Deiter's cells, intracellular Ca^{2+} dynamics and membrane conductance 191
- Dictyostelium discoideum*
calcium requirement for efficient phagocytosis 229
differentiated, Ca^{2+} stores in 171
- Dystrophin, Ca^{2+} homeostasis and cell death in Sol8 dystrophin-deficient cell line 85
- E**
- Endoplasmic reticulum
dependence of vital cell function on Ca^{2+} levels (Review) 1
sorting of calcium signals at junctions 249
- Endothelial cells, mechanism of intra/intercellular Ca^{2+} wave propagation in CPAE cells 117, 125
- Epithelial cells, kinetics of activation of PKC-regulated calcium channel 263
- Excitotoxic cell death, Ca^{2+} buffering and protection by calbindin-D28k 277
- Exocytotic events, amperometric characterization 199
- F**
- Fibroblasts, bradykinin-induced rapid cyclooxygenase-2 mRNA expression via Ca^{2+} mobilization 446
- Fluorescence indicators
calibration of Ca^{2+} dissociation constant of Rhod₂ in perfused mouse heart model 217
 $\text{Mn}^{2+}/\text{Ca}^{2+}$ influx during Ca^{2+} oscillations 311
- G**
- Glucose concentration, intra/intercellular Ca^{2+} wave propagation in ROS cells 137
- H**
- Hippocampal neuron network, synchronized Ca^{2+} signals 379
- I**
- Inositol 1,4,5-trisphosphate
 Ca^{2+} release in leech photoreceptor 335
cyclic ADP-ribose induced Ca^{2+} release from pancreatic acinar cells 29
effects of 2APB on permeabilized A7r5 cells 111
- Interleukin-1 β -primed fibroblasts, rapid cyclooxygenase-2 mRNA expression via Ca^{2+} mobilization 446
- Ischemia-reperfused (rat) heart, decreased expression of high-molecular-weight calmodulin-binding protein 59
- K**
- K^{+} channels, differential segmental activation in myocytes 369
- L**
- Leech photoreceptor, Ca^{2+} release in 335
- Lizards, signal transduction in red blood cells 439
- LY294002, inhibition of catecholamine secretion by rat adrenal medullary cells 239
- M**
- Manganese quenching
calibration of Ca^{2+} dissociation constant of Rhod₂ 217
 $\text{Mn}^{2+}/\text{Ca}^{2+}$ influx during Ca^{2+} oscillations 311
- Membrane conductance, purinergic responses of cochlear Deiter's cells, 191
- Mitochondria, sorting of calcium signals at junctions 249

Myocytes

- anti-adrenergic effect of adenosine on $\text{Na}^+/\text{Ca}^{2+}$ exchanger 347
- differential segmental activation of Cl^- and K^+ channels 369
- distribution of the sarcoplasmic reticulum and Ca^{2+} release sites 13
- see also Cardiomyocytes

N

- Neuronal cell injury, dependence of vital cell function on endoplasmic reticulum Ca^{2+} levels (Review) 1
- Neuron network, hippocampal, synchronized Ca^{2+} signals 379
- Neurotransmitter release, modulation by Ca^{2+} stores in adrenal chromaffin cells 49
- Neutrophil-like HL-60 cells, O_2^- secretion and Ca^{2+} influx 409
- Nucleotides, in intra/intercellular Ca^{2+} wave propagation in CPAE cells 125

O

- Oocytes (prawn), voltage dependence of $[\text{Ca}^{2+}]_i$ oscillations 97
- Oxygen, O_2^- secretion and Ca^{2+} influx in neutrophil-like HL-60 cells 409

P

- P2x receptor, activation, and cytoskeleton alterations induced by ATP 299
- P2Y receptor, store-operated Ca^{2+} entry in smooth muscle cells 359
- P2Z receptor, Ca^{2+} entry, Na^+ block and depolarization in B lymphocytes 395
- Pancreatic acinar cells
 - bombesin-induced Ca^{2+} signalling and ADP-ribose 211
 - IP_3 and cyclic ADP-ribose induced Ca^{2+} release 29
- Perfused mouse heart model, calibration of Ca^{2+} dissociation constant of Rhod_2 217
- Phagocytosis, calcium requirement of *Dityostelium discoideum* 229
- Phospholipase C activity, stimulation in neonatal rat cardiomyocytes by mechanical stress 73
- Photoreceptors, leech, and calcium release 335
- Pinaverium bromide, inhibition of contraction of colonic circular smooth muscle cells 429
- Protein kinase C, kinetics of activation of epithelial calcium channel 263
- Purinergic responses of cochlear Deiter's cells 191

- Purinoreceptor stimulation (P2Y), store-operated Ca^{2+} entry in smooth muscle cells 359
- Purkinje cells, early and late afterdepolarizations in rabbit heart 289

R

- Rac-1, O_2^- secretion and Ca^{2+} influx in neutrophil-like HL-60 cells 409
- Red blood cells (lizards), signal transduction 439
- ROS cells, intra/intercellular Ca^{2+} wave propagation 137

S

- Sarcoplasmic reticulum, distribution of, and Ca^{2+} release sites 13
- Smooth muscle cells
 - colonic, inhibition of contraction by Ca^{2+} blocker pinaverium bromide 429
 - coronary, store-operated Ca^{2+} entry 359
 - graded α_1 -adrenoceptor activation of arteries and Ca^{2+} signalling 327
- Sodium
 - Na^+ block, effect on Ca^{2+} entry in B lymphocytes 395
 - $\text{Na}^+/\text{Ca}^{2+}$ exchanger, anti-adrenergic effect of adenosine in myocytes 347
- Sol8 dystrophin-deficient cell line, Ca^{2+} homeostasis and cell death 85
- Stress, mechanical, stimulation of PLC activity in neonatal rat cardiomyocytes 73
- Subplasmalemmal space, and Ca^{2+} stores in human uterine smooth muscle 183

T

- Tupinambis merianae*, signal transduction in red blood cells 439

U

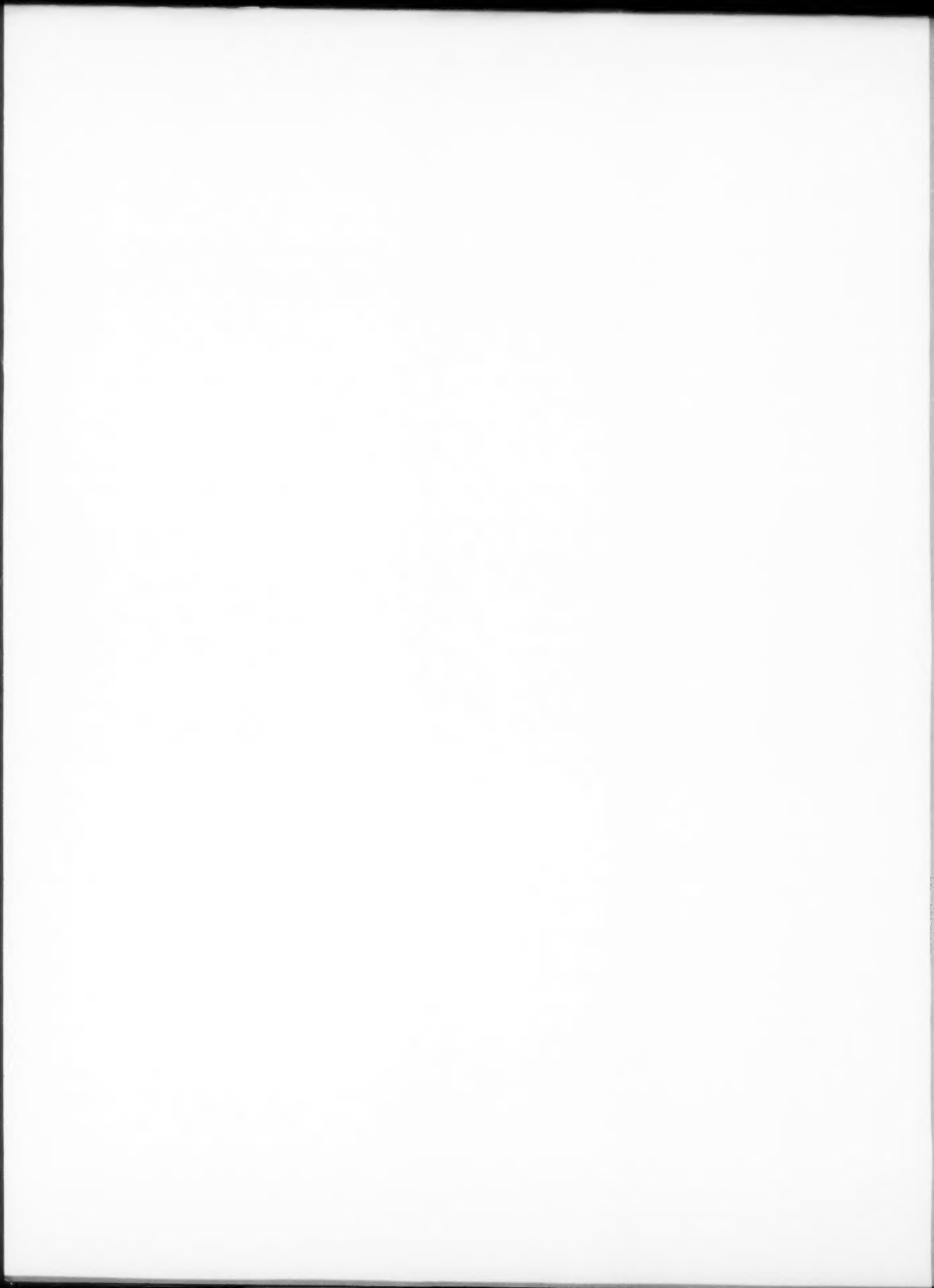
- Uterine smooth muscle (human), intracellular calcium gradients 183

V

- Voltage dependence of $[\text{Ca}^{2+}]_i$ oscillations in prawn oocytes 97

W

- Wortmannin, inhibition of catecholamine secretion by rat adrenal medullary cells 239



Author index to Volume 29

A

Allen CN, 39
Andrés M, 299
Aydin S, 73

B

Baimbridge KG, 277
Bali JP, 429
Balke CW, 327
Balmes JL, 429
Beraldo FH, 439
Bindels RJM, 417
Bolaños P, 199
Bolton TB, 13
Boyer JC, 429
Bridge JHB, 289
Bueb J-L, 409
Burdakov D, 211

C

Callewaert G, 111
Cancela JM, 211
Capdeville-Atkinson C, 409
Caputo C, 199
Chia CP, 229
Christen MO, 429
Clark CL, 49
Cognard C, 85
Constantin B, 85
Cordeiro JM, 289
Csordás G, 249

D

Daly JW, 149
Dayanithi G, 299
De Smedt H, 111
Droogmans G, 417
Du C, 217
Dufour M-N, 299

F

Farkas DL, 217
Feick P, 29
Fleckenstein-Grün G, 359
Friedrich P, 161
Furuyama S, 446

G

Gallagher KL, 149
Garcia CRS, 439
Göbel A, 29
Gomez P, 137
Gordienko DV, 13
Goudeau H, 97
Goudeau M, 97
Grandy DK, 39
Greenwood IA, 13
Guillon G, 299

H

Hajnóczky G, 249
Hancox JC, 347
Harper JCR, 73
Himpens B, 117, 125, 137
Hinde AK, 347
Hoenderop JGJ, 417
Hug MJ, 359

I

Ikeda M, 39
Iwabuchi S, 369

J

Jaffe EH, 199

K

Kakkar R, 59
Klapperstück M, 395
Koretsky AP, 217
Krause E, 29
Kuba K, 379

L

Lagostena L, 191
Lanari RD, 439
Löhn M, 395
López-Barneo J, 369
Lu F-M, 379

M

MacGowan GA, 217
Magous R, 429

Mammano R, 191
Marchand E, 85
Markwardt F, 395
Mendgen K, 171
Mendre C, 299
Mikoshiha K, 311
Mills SJ, 335
Missiaen L, 111
Miyazaki S, 311
Modéer T, 446
Moerenhout M, 117, 125
Mohri T, 311
Müller M, 171

N

Nakao S, 446
Nelson CS, 39
Nilius B, 417
Noordzij LAW, 73

O

Oda S, 311
Ogata Y, 446
O'Neil RG, 263

P

Parys JB, 111
Paschen W, 1
Petersen OH, 211
Potter BVL, 335
Powis DA, 49
Prenen J, 417
Pubill D, 299

R

Radhi JM, 59
Rajala RVS, 59
Raymond G, 85
Raymond LA, 277
Riemann D, 395
Rintoul GL, 277
Ruwhof C, 73

S

Sartorello R, 439
Sato MS, 311

Schlatterer C, 171
 Schulz I, 29
 Schumann R, 183
 Segawa M, 446
 Sei Y, 149
 Seiler L, 359
 Sharma RK, 59
 Shinagawa H, 39
 Shinoe T, 39
 Shirakawa H, 311
 Siatka C, 299
 Siu C-H, 229
 Smani T, 369
 Spitzer KW, 289
 Sugiyama H, 446
 Sugiyama T, 39

T

Tompa P, 161
 Tóth-Boconádi R, 161
 Tschirhart E, 409

U

Ukhanov K, 335
 Ureña J, 369

V

Valentin F, 409
 Vandebrouck C, 85
 van der Laarse A, 73
 van Wamel JET, 73
 Vennekens R, 417
 Vereecke J, 117, 125, 137

W

Walther P, 171
 Walz B, 335
 Wang R, 59
 Wang X, 59
 Warashina A, 239
 Weirich J, 359
 Wier WG, 327

Y

Yoshioka T, 39
 Young RC, 183
 Yuan A, 229

Z

Zang W-J, 327
 Zerbes M, 49
 Zhang MIN, 263
 Zhang P, 183
 Zhang YH, 347
 Zierold K, 171

